Windows®. Life without Walls™. Fujitsu recommends Windows 7.



Data Sheet

Fujitsu ESPRIMO E3521 E-Star 5.0 Desktop PC

Your flexible economy PC

ESPRIMO E3521 E-Star 5.0

The ESPRIMO E3521 E-Star5 is the right choice for major customers requiring the latest standard technology. This Small Form Factor PC, less than 13 litres in volume, combines top performance and extremely attractive prices. Equipped with a power supply unit with up to 87% efficiency and selected components it complies with the ENERGY STAR® standard, thus saving energy and protecting the environment. Freely configurable, with proven technology and an extended product lifecycle of 12 months, this PC is the perfect choice for cost-driven projects.



Excellent price / performance ratio

Cost-effective system for major customer projects

■ Entry-level PC with standard technology

Flexibility

Freedom of choice with tailored systems, perfect fit for specific requirements

■ Flexible logistic concept - customizing program (made4you)

Reliability

Excellent quality and functional stability

■ Proprietary development and production in Europe

Lifecycle

Hardware continuity for long lasting project needs

■ Managed lifecycle up to 12 months

Meets ENERGY STAR® 5.0 and Blue Angel requirements

Low power consumption and low costs, without any loss in performance.

■ Effective power supply of maximum 87%













Components

Dragager	Jobal® Corollia Ouad processor DOCED // Coroc // Throads 2 O.C.U. 12 MD 1222 MUJa)
Processor	Intel® Core™2 Quad processor Q9650 (4 Cores / 4 Threads, 3.0 GHz, 12 MB, 1333 MHz)
	Intel® Core™2 Quad processor Q9550 (4 Cores / 4 Threads, 2.83 GHz, 12 MB, 1333 MHz)
	Intel® Core™2 Quad processor Q9505 (4 Cores / 4 Threads, 2.83 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Quad processor Q8300 (4 Cores / 4 Threads, 2.5 GHz, 4 MB, 1333 MHz)
	Intel® Core™2 Duo processor E8600 (2 Cores / 2 Threads, 3.33 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Duo processor E8500 (2 Cores / 2 Threads, 3.16 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Duo processor E8400 (2 Cores / 2 Threads, 3.0 GHz, 6 MB, 1333 MHz)
	Intel® Core™2 Duo processor E7600 (2 Cores / 2 Threads, 3.06 GHz, 3 MB, 1066 MHz)
	Intel® Core™2 Duo processor E7500 (2 Cores / 2 Threads, 2.93 GHz, 3 MB, 1066 MHz)
	Intel® Pentium® processor E6600 (2 Cores / 2 Threads, 3.06 GHz, 2 MB, 1066 MHz)
	Intel® Pentium® processor E5800 (2 Cores / 2 Threads, 3.2 GHz, 2 MB, 800 MHz)
	Intel® Pentium® processor E5700 (2 Cores / 2 Threads, 3.0 GHz, 2 MB, 800 MHz)
	Intel® Pentium® processor E5500 (2 Cores / 2 Threads, 2.8 GHz, 2 MB, 800 MHz)
	Intel® Pentium® processor E5400 (2 Cores / 2 Threads, 2.7 GHz, 2 MB, 800 MHz)
	Intel® Celeron® processor E3400 (2 Cores / 2 Threads, 2.6 GHz, 1 MB, 800 MHz)
	Intel® Celeron® processor E3200 (2 Cores / 2 Threads, 2.4 GHz, 1 MB, 800 MHz)
Operating system	
Operating system optional preinstalled	Genuine Windows® 7 Starter (EM) 32-bit
	Genuine Windows® 7 Home Basic (EM) 32-bit
	Genuine Windows® 7 Home Premium 64-bit
	Genuine Windows® 7 Professional 32-bit
	Genuine Windows® 7 Professional 64-bit
Operating system compatible	openSUSE Linux
	Genuine Windows Vista® Genuine Windows® XP
Operating system notes	Dependent on configuration Windows 7® versions are:
operating system notes	Microsoft Office 2007 ready
	Microsoft Office 2010 preloaded. Purchase a Product Key to activate a full Microsoft Office 2010 suite.
	Limited Windows XP support. Microsoft discontinued Windows XP certification on system level.
Memory modules	1 GB (1 module(s) 1 GB) DDR3, unbuffered, non-ECC, 1066 MHz, PC3-8500, DIMM
	2 GB (1 module(s) 2 GB) DDR3, unbuffered, non-ECC, 1066 MHz, PC3-8500, DIMM
	4 GB (1 module(s) 4 GB) DDR3, unbuffered, non-ECC, 1066 MHz, PC3-8500, DIMM
Hard disk drives (internal)	SSD SATA, 128 GB, 2.5-inch
	SATA II, 7200 rpm, 1000 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 500 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 320 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 250 GB, 3.5-inch, S.M.A.R.T.
	SATA II, 7200 rpm, 160 GB, 2.5-inch, S.M.A.R.T.
Hard disk notes	Supporting NCQ and 3 GBit
Graphics add on cards (optional)	NVIDIA® Quadro® NVS 290 low profile, 256 MB
	NVIDIA® GeForce® GT 420
	NVIDIA® GeForce® 9300GE display port low profile, 512 MB
	DVI Extension Adapter
	DVI-D + DisplayPort Extension Adapter
	DP to DVI-D (single link) Adapter Cable
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Biturary Discomming to Witter DVD-ROW DV		
DVD ROME DVD Super Multi MultiCard Reader 20in1 USB 2.0. 3.5-Inch MultiCard Reader 20in1 USB 3.0 Floot con., 3.5-Inch	Drives (optional)	1.44 MB Floppy
DVD Super Mulbi Multicad Reader 20int USB 3.0 Float con., 3.5-Inch Multicad Reader 20int USB 2.0 Float Reader 20int USB		Blu-ray Disc™ Triple Writer
MultiCard Reader 20m1 USB 2.0. 3-5-inch MultiCard Reader 20m1 USB 3.0 hont con., 3.5-inch MultiCard Reader 20m1 USB		DVD-ROM
Interface add on cards/components		DVD Super Multi
Interface add on cards/components USB 3.0 PCle x1 Parallel Interface		MultiCard Reader 20in1, USB 2.0, 3.5-Inch
		MultiCard Reader 20in1 USB 3.0 front con., 3.5-Inch
	Interface add on cards/components	
Base unit ESPRIMO E3521 E-Star5 Mainboard Mainboard Formfactor µATX Chipset Intel® G41 Processor socket 16A 775 Processor guantity maximum 1 System bus (FSB / HT / OP) up to 1333 MHz Memory slots 2 DIMM (DDR3) Supported capacity RAM (max.) 8 GB Memory notes Dual channel support. For dual channel support. For dual channel support. For dual channel support. For dual channel support. BIOS resion Photon (SO DIM Bus Realtek RTLB IT) DL. BIOS services BIOS Flash FPROM update by software Recovery BIOS Audio codec Realtek ALG63 Audio features High Definition audio, 5.1 surround sound UC controller on board Serial ATA It al. 3 GBiT Audio: Inie-in multiprophone 1 Audio: Inie-in multiprophone 1 Audio: Inie-in multiprophone 1 Audio: Inie-in multiprophone 1 USB Pront audio: multiprophone 1 USB Floral 2		
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Mouse / Keyboard (PS/2) 2	DVI	
·		
Ethernet (KJ-45)	·	
	Ethernet (RJ-45)	<u> </u>

Interfaces	
Parallel	1 (optional) (25pin with EPP and ECP)
Interface Module notes	Anytime USB charge functionality
Input device / components	
	Optical USB wheel mouse
Input devices (optional)	Optical USB/PS2 tilt wheel mouse
Drive bays	
Drive bays total	3
3.5-inch internal bays	1
3.5-inch external bays	1
5.25-inch external bays	1
Drive bay notes	optional external bay as internal 3,5"
Slots	
PCI-Express x16	1 x (210 mm) low profile
PCI-Express x1	1 x (210 mm) low profile
PCI (32-bit / 33 MHz)	2 x (170/ 190 mm) low profile
Graphics on board	
Graphics brand name	Intel® GMA 4500
Shared video memory	up to 1759 MB
Refresh rate 1024 x 768 (recommended / max.)	'
Refresh rate 1280 x 1024 (recommended / max.)	85 Hz / -
Refresh rate 1600 x 1200 (recommended / max.)	85 Hz / -
TFT resolution (VGA)	1360 x 768 pixel
Tricsoldion (VdA)	1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel
	1920 x 1080 pixel 1920 x 1200 pixel
TFT resolution (DVI)	1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel
TFT resolution (DisplayPort)	1360 x 768 pixel 1440 x 900 pixel 1600 x 900 pixel 1680 x 1050 pixel 1920 x 1080 pixel 1920 x 1200 pixel 2560 x 1440 pixel 2560 x 1600 pixel
Graphics features	DirectX 10 HDCP support OpenGL® 2.0
Graphics notes	Tested resolutions, depending on display type additional resolutions and frequencies possible Shared memory depending on main memory size and operating system Resolution (color depth up to 32 Bit/pixel) For TFT we recommend using 60Hz

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Electrical values	
Power efficiency note	power supply efficiency (at 230V; 20% / 50% / 100% load) : 86% / 88% / 85%)
	0-Watt mode with hard-off switch
Rated voltage range	100 V - 240 V
Rated frequency range	50 Hz - 60 Hz
Operating voltage range	90 V - 264 V
Operating line frequency range	47 Hz - 63 Hz
Max. output of single power supply	250 W
Power factor correction/active power	active
Monitor outlet	No
Power consumption	
Power consumption note	See white paper Energy Consumption
Link to Energy White Paper	http://docs.ts.fujitsu.com/dl.aspx?id=b0ce6669-1ef6-4d5b-8e4d-d7064dbd3f26
Heat dissipation	
Heat dissipation notes	See white paper Energy Consumption
Noise for standard configuration (HDD,	ODD, FDD)
Noise emission	According to ISO9296
Related Processors for noise	Intel® Core™2 Duo E8600
Noise Operation mode 1: ODD load	4.4 B / 29 dB(A)
(Blue angel requirement)	
Noise Operation mode 2: HDD load (Blue angel requirement)	4.1 B / 26 dB(A)
Noise Operation mode 3: CPU 90% load (Blue angel requirement)	4.0 B / 25 dB(A)
Noise Operation mode 4: High load	4.1 B / 26 dB(A)
Noise Operation mode 5: Office applications	4.1 B / 26 dB(A)
Idle mode (Blue Angel requirement)	4.0 B / 24 dB(A)
Noise notes / description	A weighted sound power level Lwad (in B) / workplace related A-weighted sound pressure level LpAm (in dB(A)), Bystander position
Dimensions / Weight / Environmental	
Dimensions (W x D x H)	330 x 405 x 104 mm
Operating position	Vertical / horizontal (optional, feet needed)
Weight	approx. 10 kg
Weight notes	Actual weight may vary depending on configuration
Operating ambient temperature	10 - 35℃
Compliance	
Product	ESPRIMO E3521
Model	DTL1-3041
Germany	Blauer Engel / Blue Angel
	CS .
Europe	CE
USA/Canada	FCC Class B CSA
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) ENERGY STAR® 5.0
Compliance link	EPEAT® Silver https://sp.ts.fujitsu.com/sites/certificates/default.aspx

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Additional Software	
Additional software (preinstalled)	Nero Essentials S (burning software)
Additional software (optional)	Recovery DVD for Windows®
	Drivers & Utilities DVD (DUDVD)
	CyberLink PowerDVD BD (playback software for Blu-ray Disc™, only with Blu-ray Disc™ drive / Blu-ray playback is not
	supported under Windows XP if the system runs on Intel onboard graphics)
	Nero 9 Essentials XL
Compatibility (references)	
	DMI 2.0
	PC 2001
	WMI 1.5
	USB 2.0
	SMBIOS
Manageability	
Manageability features	DeskUpdate Driver management
	PXE 2.1 Boot code
	Wake up from S5 (off mode)
DeskView features	WoL (Wake on LAN)
Manageability link	http://ts.fujitsu.com/manageability
	http://www.altiris.com/fujitsu
Security	
Physical security	Kensington Lock support
	Eye for padlock
System security	Boot sector virus protection
	Write protect option for the Flash EPROM
	Boot protection for floppy disk / CD drive and write protection for floppy disk drive
	Control of all USB interfaces
User security	User and supervisor BIOS password
	Optional: Access protection via external SmartCard reader
	Optional: Access protection via internal SmartCard reader
Packaging information	
Packaging dimension	500x290x540 mm
Max. quantity / pallet	24
Material - Weight (g) Carton	1270 g
Material - Weight (g) EPS / PS	200g
Material - Weight (g) PE	аррг. 60 g
Packaging notes	printed user documentation is bleached in chlorine free process
Warranty	
Standard Warranty	1 year
Service level	Bring-In / On-Site Service (depending on country)
Maintenance and Support Services - t	
Recommended Service	5x9, Response Time: Next Business Day
Spare Parts availability	5 years
Service Weblink	http://ts.fujitsu.com/Supportservice

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More information

Fujitsu platform solutions

In addition to Fujitsu ESPRIMO E3521 E-Star 5.0, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing Products

www.fujitsu.com/global/services/computing/

Software

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Fujitsu green policy innovation

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